End User Documentation **CUSTOMER**

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SAP InfiniteInsight® 7.0

Startup Options User Guide

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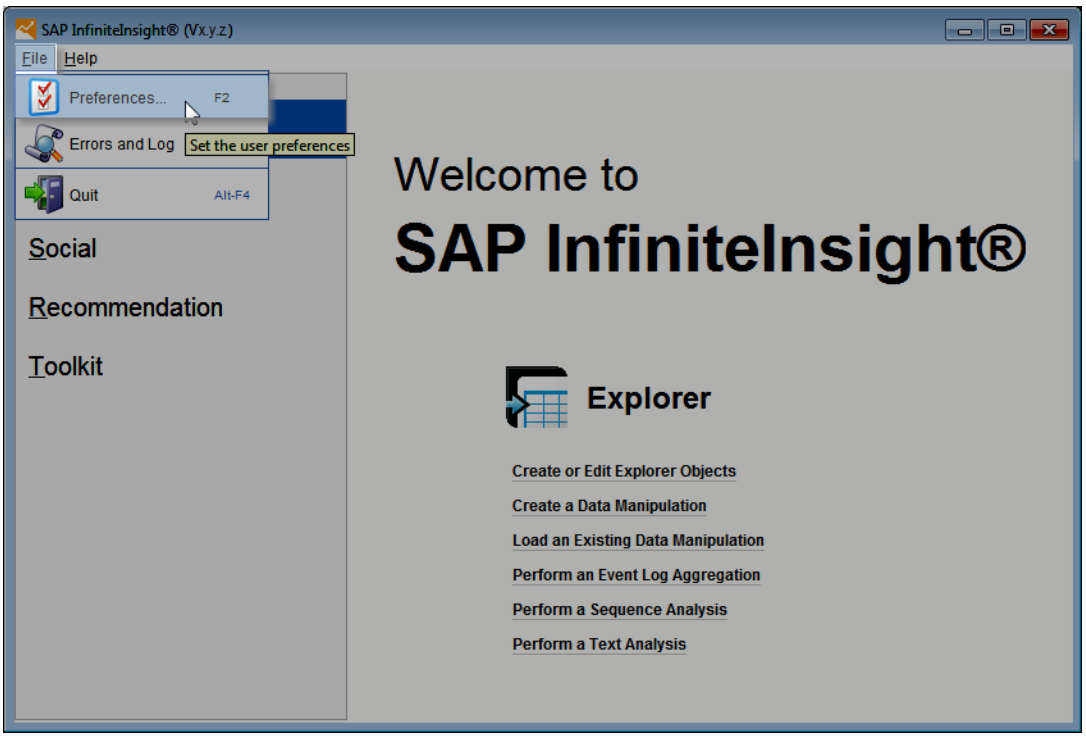
1 Accessing the Startup Options Editor

SAP InfiniteInsight® startup options can be accessed from all panels of the modeling assistant.

☑ To Access the Startup Options Editor

1 In the *File* menu, select *Preferences...* or press the F2 key.



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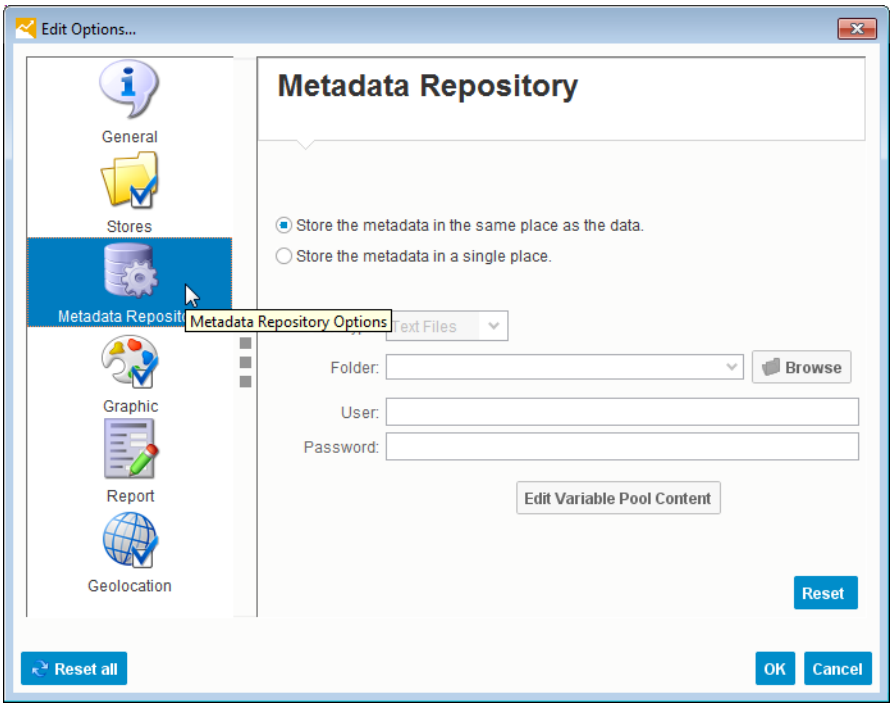
☑ To Access a Specific Panel

According to the option you want to edit (*General*, *Stores*, *Metadata Repository*, *Graphic*, *Report* or *Geolocation*), click the corresponding icon on the left side of the screen.



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2 Common Features

This section describes two functions that are common to all the panels of the options editor:

- The *Reset* button restores the default settings of the **current** panel.
- The button *Reset all* restores the default settings of **all** the panels.

☑ To Reset the Options of the Current Panel

Click the button

on the right lower side of the panel. The default settings for the current panel are restored.

☑ To Reset the Options of All the Panels

Click the button

on the left lower side of the panel. The default settings are restored for all the panels.

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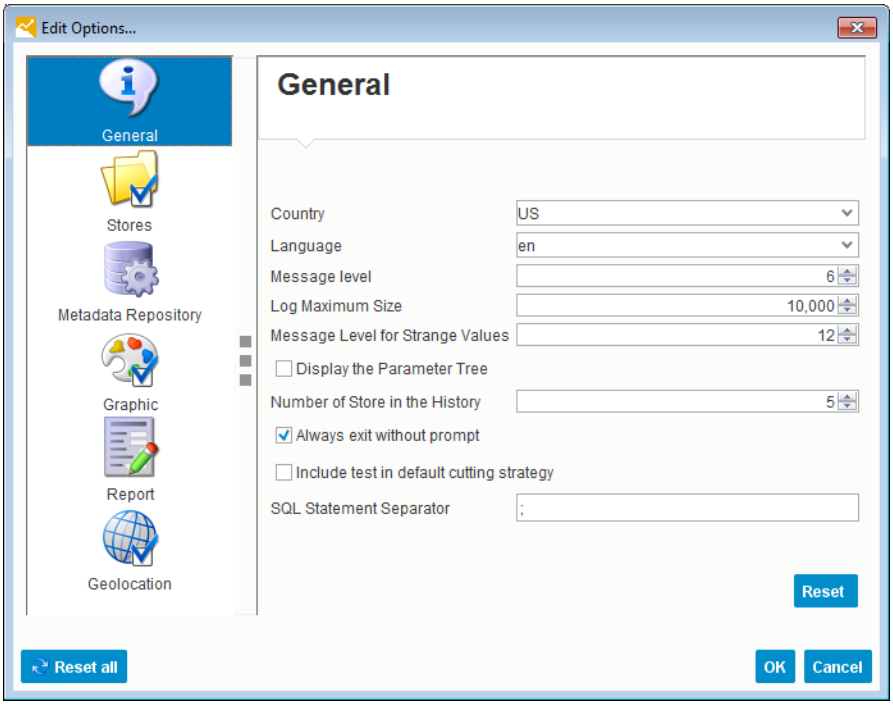
3 General Options

Use the *General* panel to customize parameters related to the following elements:

- the country of the user
- the language of the interface
- the log options
- the type of messages to display
- the parameter tree
- and so on...



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3.1 Default Options

The following table sums up the default values and the possible values of the general options.

Option	Definition	Default Setting
Country	sets the user country This parameter sets the country specificities related to the notation of the dates and numbers.	▪ AT (Austria) ▪ BR (Brazil) ▪ CN (China) ▪ DE (Germany) ▪ ES (Spain) ▪ FR (France) ▪ GB (Great-Britain) ▪ JP (Japan) ▪ MX (Mexico) ▪ PT (Portugal) ▪ RU (Russia) ▪ TW (Taiwan) ▪ *US* (USA) (default)
Language	sets the language of the interface	▪ de (German) ▪ *en* (English) (default) ▪ es (Spanish) ▪ fr (French) ▪ ja (Japanese) ▪ pt (Portuguese) ▪ ru (Russian) ▪ zh (Chinese)
Message Level	indicates the level of messages that should be displayed by the interface. The messages that are displayed are those corresponding to all the levels from *0* up to the level indicated. ▪ *0*: error messages displayed in a pop-up window ▪ *1*: information displayed in a pop-up ▪ *2*: obsolete ▪ *3*: phase message saved in the log file ▪ *4*: detailed information saved in the log file ▪ *5*: warning messages saved in the log file ▪ *6*: progress messages displayed as a progress bar Note - Each level also displays the messages from the previous level (for example, level 1 displays information messages and error messages).	▪ *6* (default) ▪ any integer between 0 and 6
Log Maximum Size	The maximum number of lines displayed in the log when generating or applying a model. When the defined number is reached, the oldest lines are deleted	▪ *10,000* (default) ▪ positive integer
Message Level for Strange Value	sets the level of messages to use when strange values are detected in the data sets during the application of a model. Strange values are missing values or values that are out of range in the application data set when compared with the training data set. When the level is set to a number over 6, the messages do not appear in the graphical interface	▪ *12* (default) ▪ positive integer
Display the Parameter Tree	indicates whether to display the parameter tree in the model debriefing panel	▪ *deactivated* (default) ▪ activated
Number of Stores in the History	indicates how many stores should be displayed in the history	▪ *5* (default) ▪ any positive integer

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Option	Definition	Default Setting
Always Exit without prompt	indicates whether a confirmation is required when closing SAP InfiniteInsight®	▪ *deactivated* (default) ▪ activated
Include test in default cutting strategy	indicates whether to use the test data set in the default cutting strategy. The standard default cutting strategy is "Random with no test". By activating this option, the default cutting strategy will be set to "Random".	▪ *deactivated* (default) ▪ activated
SQL Statement Separator	sets the separator used in SQL statements generated by InfiniteInsight®	▪ *semi-colon* (default)

Note

When editing the startup options, you can always restore the original settings by clicking the *Reset* button.

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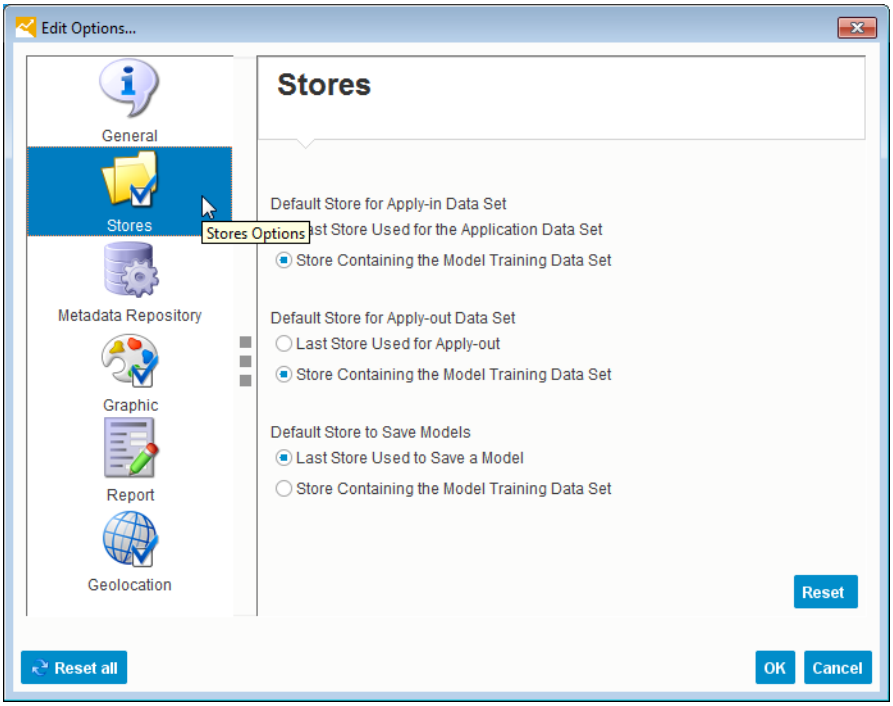
4 Stores Options

Use the *Stores* panel to customize the options related to the stores (or data sources) manipulated when modeling.



4.1 Stores Default Options

> **Note**
>
> When editing the startup options, you can always restore the original settings by clicking the *Reset* button.

4.1.1 For the Default Store for Apply-in Data Set

This option allows you to indicate the store to open by default when selecting the input data sets for a model application. The possible values are listed below:

- *Last store used for Apply-in* allows you to set the last store used for a model application as the default.
- *Store Containing the Model Training Data Set* (*default value*) allows you to set the store containing the training data set as the default store.

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4.1.2 Default Store for Apply-out Data Set

This option allows you to indicate the store to open by default when selecting the output data sets for a model application. The possible values are listed below:

- *Last store used for Apply-out* allows you to set the last store used for a model application as the default.
- *Store Containing the Model Training Data Set* (*default value*) allows you to set the store containing the training data set as the default store.

4.1.3 Default Store to Save Models

This option allows you to indicate the store to select by default when saving a model. The possible values are listed below:

- *Last store used to Save a Model* (default value) allows you to set the last store used to save a model as the default.
- *Store Containing the Model Training Data Set* allows you to set the store containing the training data set as the default store.

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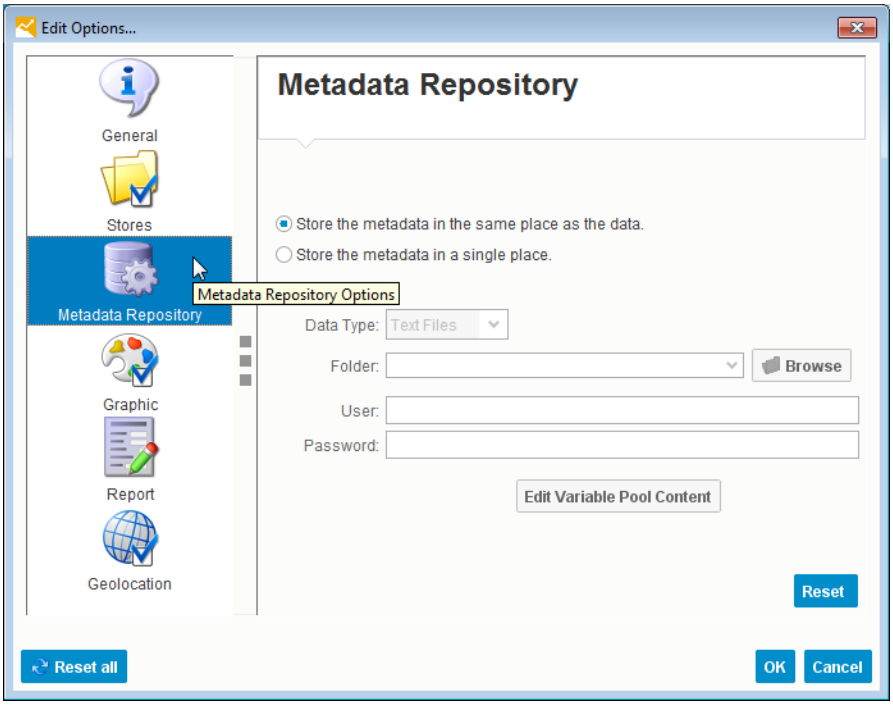
5 Metadata Repository Options

Use the panel *Metadata Repository* to customize the following options:

- the repository where the data descriptions can be stored: type, location, authentication parameters.
- the variable pool, which allows you to save variables descriptions. When guessing a data set description, if a description already exists for a variable in the variable pool, it is used, else the description is guessed from the first hundred lines of the data set. Once a data set has been described, any or all the variable descriptions can be stored in the variable pool.



5.1 Metadata Default Repository Options

The following table describes the metadata repository options.

Option	Definition
Store the metadata in the same place as the data / Store the metadata in a single place	indicates whether the metadata should be stored where the data is stored or gathered in a single repository. By default the metadata are stored along with the data.
Data Type	type of the store where the metadata will be saved (Text Files, Data Base, Flat Memory)
Folder	folder where the metadata repository is stored
User	user name to use to open the metadata repository when it needs an authentication
Password	Password to use to open the metadata repository when it needs an authentication

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5.2 Editing the Metadata Repository Options

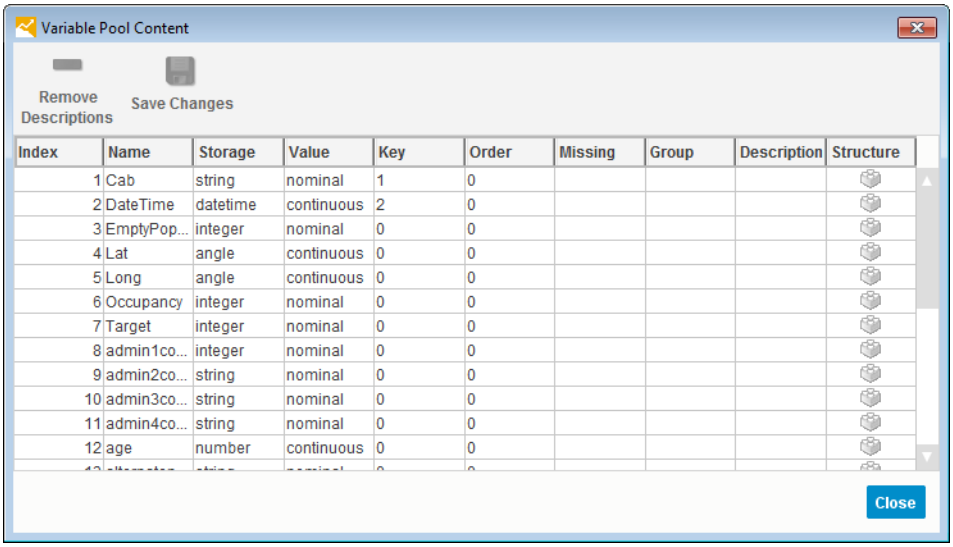
☑ To Activate the Metadata Repository

1. Select *Store the metadata in a single place*.
2. Define the data source type in the drop-down list *Data Type*.
3. In the *Folder* field, browse to the metadata repository location.
4. Optional: in the *User* field, enter the user identifier allowing connecting to the metadata repository (in case authentication is needed).
5. Optional: In the *Password* field, enter the user password allowing connecting to the metadata repository (in case authentication is needed).

5.2.1 Editing the Variable Pool Content

☑ To Edit the Variable Pool

1. On the panel *Metadata Repository*, click the button *Edit Variable Pool Content*.
   The panel *Variable Pool Content* is displayed.



Index	Name	Storage	Value	Key	Order	Missing	Group	Description	Structure
1	Cab	string	nominal	1	0				
2	DateTime	datetime	continuous	2	0				
3	EmptyPop...	integer	nominal	0	0				
4	Lat	angle	continuous	0	0				
5	Long	angle	continuous	0	0				
6	Occupancy	integer	nominal	0	0				
7	Target	integer	nominal	0	0				
8	admin1co...	integer	nominal	0	0				
9	admin2co...	string	nominal	0	0				
10	admin3co...	string	nominal	0	0				
11	admin4co...	string	nominal	0	0				
12	age	number	continuous	0	0				

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This panel allows you to edit the following parameters of the variables stored in the variable pool.

Parameter	Definition	Possible values
Storage	The storage type of the variable.	▪ number ▪ string ▪ integer ▪ date ▪ datetime ▪ angle
Value	The value type of the variable.	▪ continuous ▪ nominal ▪ ordinal ▪ textual
Key	The key level of the variable, where 1 corresponds to the primary key, 2 to the secondary key, and so on. 0 (null) means the variable is not a key.	Integer (starting from 0)
Order	A number different from 0 indicates that the variable can be considered as a natural sort order for the cases. An example of such a variable is a date or a customer ID. When such variable is present, InfiniteInsight® Components can use the information to enhance the cutting strategy.	Integer (starting from 0)
Missing	Indicates a specific code for missing values. The default value is 'null', which is used most of the times. However, data base systems can have their specific code for missing values, such as '99' for two digit numbers or "unknown" for some categorical information.	▪ null string ▪ 99 ▪ unknown ▪ etc.
Group	Assembles variables that belong to a single semantic group. For example, when it comes to disjunctive coding of categorical variables: all of the variables can take boolean values, but when one of the columns is activated all the others are deactivated. This can forbid transforms (and thus models) to take into account cross studies between variables belonging to the same group.	
Description	Comments describing the variable.	/
Structure	Defines the variable categories grouping. A variable structure can be defined from scratch by the user or extracted using the variable statistics.	▪ undefined ▪ non-editable (the structure for an ordinal string variable cannot be modified) ▪ defined according to the value type of the variable

Note

The *Index* and the *Name* of the variables stored in the variable pool cannot be edited.

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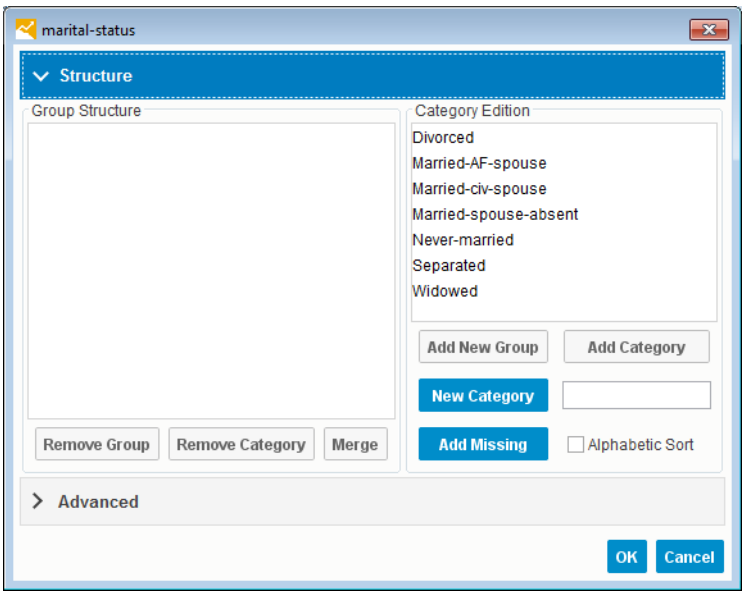
☑ To Edit the Variables Parameters

To Edit the...	Procedure
Storage Type	▪ In the field *Storage* of the variable, select a storage type using the drop-down list.
Value	▪ In the field *Value* of the variable, select a value using the drop-down list.
Key Level	▪ Double-click the field *Key* of the variable and enter the new value.
Order	▪ Double-click the field *Order* of the variable and enter the new value.
Code for Missing Values	▪ Double-click the field *Missing* of the variable and enter the code.
Group	▪ Double-click the field *Group* of the variable and enter the new group.
Description	▪ Double-click the field *Description* of the variable and enter a short description if wanted.

☑ To Define the Structure of a Variable

1 Double-click the field *Structure* of the variable.
A new panel is displayed.



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Editing a Variable Structure

A variable structure can be in different states, indicated by the following icons:

- : undefined. InfiniteInsight® date coder will automatically determine the categories grouping depending on their interaction with the target variable.
- : non-editable. The structure for an ordinal string variable cannot be modified.
- : defined by extraction from the variable statistics.
- : defined by the user.

Type of Structures

Variable Value	Structure	Options
Continuous	The structure for a continuous variable is defined by several intervals each made of: ▪ a lower bound (*[ ]*) that can be either open or closed, ▪ a minimum value (*Minimum*), ▪ a maximum value (*Maximum*), ▪ a higher bound (*[ ]*) that can be either open or closed. *Note-* All intervals must be adjacent: there can be no gap or overlap between two intervals.	▪ *Add Missing* allows indicating to which interval the missing values should be assigned. ▪ *Include Smaller Data* allows including to the first interval any value smaller than its lower bound. ▪ *Include Higher Data* allows including to the last interval any value higher than its higher bound.
Ordinal	The structure for an ordinal variable is similar to that of a continuous variable with the exception of the bounds, which are always closed and cannot be modified. *Note* - The structure for an ordinal string variable cannot be edited.	
Nominal	The structure of a nominal variable is made of groups containing the variable categories.	

☑ To Edit a Variable Structure

Type of Variable...	Procedure
Continuous	**1** Double-click the icon corresponding to the variable for which you want to edit the structure. To Create a New Interval: **1** Click the button *Add* to create a new interval. **2** The dialog *Select an Option* is displayed. **3** Enter the minimum value for the interval in the left text field (*[*). **4** Enter the maximum value for the interval in the right text field (*[*). **5** Check the option *Add Missing* if the missing values must be grouped with this interval. **6** Click the button *Yes* to validate the defined interval. To Split an Interval: **1** Select the interval to split. **2** Click the button *Split*. The selected interval is automatically split into two equal intervals.

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Type of Variable...	Procedure
	To Merge Two Intervals: **1** Select the intervals to merge. *Note-* You can only select adjacent intervals. **2** Click the button *Merge*. To Delete an Interval: **1** Select one or more intervals. *Note-* You can only select adjacent intervals. **2** Click the button *Remove*. The previous and next intervals are extended to include the values formerly contained in the deleted intervals, so that no gap is left between intervals.
Ordinal	▪ See the procedure for a continuous variable.
Nominal	To Create a New Group: **1** Enter the name of the group in the field next to the button *New Category* (on the right lower side of the panel). **2** In the section *Category Edition* (right upper side of the panel), select the newly created item. **3** Click the button *Add New Group*. The newly group is displayed as a folder in the section *Group Structure* (left upper side) and it is automatically highlighted. To Include Missing Values in a Group: **1** In the section *Group Structure* (left upper side), select the group to which you want to assign the missing values. **2** Click the button *Add Missing* (right lower side of the panel). The `KxMissing` category, which represents the missing values, is added to the selected group and the button *Add Missing* is deactivated. *Note-* As any category, the `KxMissing` category can only belong to one group at a time. To Create a New Category and Add it to a Group: **1** In the section *Group Structure* (left upper side), select the group in which you want to add the new category. **2** Enter the name of the category in the field next to the button *New Category* (right lower side). **3** Click the button *New Category*. **4** Select the newly created category in the section *Category Edition* (right upper side). **5** Click the button *Add Category*. To Delete a Group: **1** In the section *Group Structure*, select the group to delete. **2** Click the button *Remove Group*. All the categories belonging to this group are re-transferred to the section *Category Edition* (right upper side). To Remove a Category from a Group: **1** In the section *Group Structure* (left upper side), select the category or categories you want to remove from the group. **2** Click the button *Remove Category*. The selected categories are removed from the group and re-transferred to the section *Category Edition* (right upper side).

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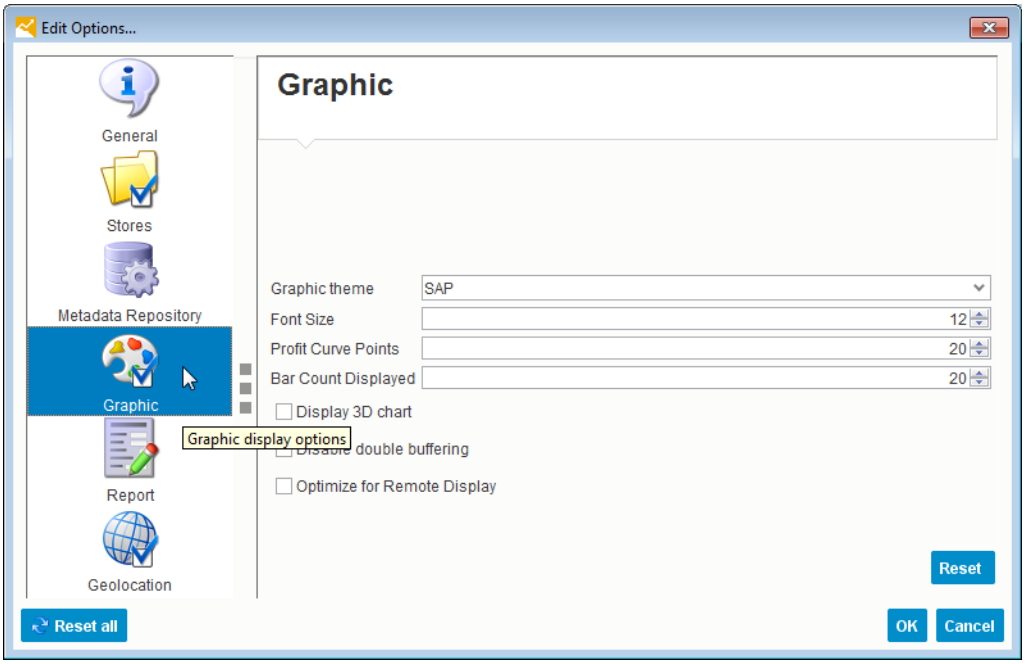
6 Graphic Options

Use the *Graphic* panel to customize the options related to the charts displayed by SAP InfiniteInsight®.



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6.1 Graphic Default Options

When editing the startup options, users always have the possibility to restore the original settings (by clicking the button *Reset*).

By default, the graphic options are set like shown below:

Option	Definition	Values
Graphic Theme	Use this option to customize the user interface. The *SAPContrast* theme is a high contrast theme for users with visual disabilities. *None* disables all themes and allows you to use your operating system accessibility features.	▪ *SAP* (default) ▪ SAPContrast ▪ None
Font Size	Allows defining of the font size in the graphical user interface.	▪ *12* (default) ▪ Positive integer
Profit Curve Points	Number of points displayed on the profit curve charts.	▪ *20* (default) ▪ Positive integer
Bar Count Displayed	The number of bars to be displayed by graph view.	▪ 1 to *20* (default)
Display 3D Chart	Displays the charts in three dimensions.	▪ Activated ▪ *Deactivated* (default)
Disable Double Buffering	Deactivates the user interface refresh optimization.	▪ Activated ▪ *Deactivated* (default)
Optimize for Remote Display	Improves the interface responsiveness on slow displays.	▪ Activated ▪ *Deactivated* (default)

6.2 Editing the Graphs Options

☑ To Set the Graphic Theme

Select the graphic theme in the proposed list.

☑ To Set the Font Size

Enter a value in the field *Font Size*

or

use the arrowed buttons to define the value.

☑ To Set the Profit Curve Points

Enter a value in the field *Profit Curve Points*

or

use the arrowed buttons to define the value.

☑ To Set the Bar Count

Enter a value in the field *Bar Count Displayed*

or

use the arrowed buttons to define the value.

☑ To Edit the 3D Option

Check the box *Display 3D chart* to activate the option

or

uncheck the box to deactivate it.

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☑ To Edit the Double Buffering Option

Check the box *Disable double buffering* to deactivate it

or

uncheck the box to activate it.

☑ To Edit the Remote Display Option

Check the box *Optimize for Remote Display* to activate the option

or

uncheck the box to deactivate it.

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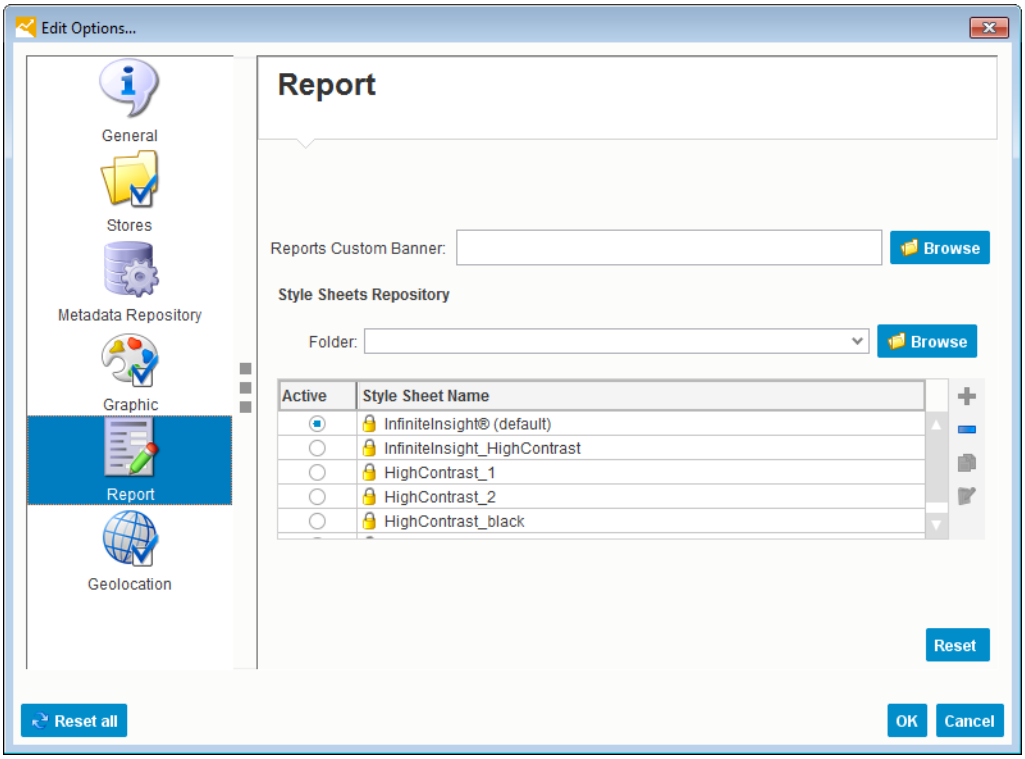
7 Reports Options

Use the *Report* panel to customize the options related to the debriefing reports displayed after the modeling processes. In this panel, you can:

- Customize the reports by adding personalized banners.
- Manage the style sheets: define the active version, create or edit style sheets, define the style sheets repository, etc.
- Define the charts display: colors, bars orientation, etc.



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7.1 Reports Default Options

By default, the report options are set like shown below:

Option	Definition	Possible values
Reports Custom Banner	Customized banner to be displayed in the reports.	Graphic format files: ▪ JPEG ▪ GIF ▪ BMP ▪ PNG ▪ WBMP
Folder	The folder where the style sheets repository is located.	
Active Style Sheet	Style sheet used by default for the reports.	▪ *InfiniteInsight® Report Style Sheet* (default) ▪ Files with the extension `.krs` (created via the Report Style Sheet Editor).

7.2 Editing the Reports Options

☑ To Display a Customized Banner

In the field *Reports Custom Banner*, select the image file using the button *Browse*.

7.2.1 Style Sheets Repository Options

To create, load or save a style sheet, it is first necessary to indicate a data source in this panel.

☑ To Define the Folder of the Repository

Select the folder using the *Browse* button

or

select the folder in the drop-down list (in case folders have been recently defined).

☑ To Set the Active Style Sheet

Select the style sheet in the drop-down list *Active Style Sheet*.

☑ To Copy a Style Sheet

1 Select the style sheet you want to copy in the drop-down list *Active Style Sheet*.

2 Click the (*Copy*) button.

☑ To Customize the Style Sheets

Click the (*Edit*) button.

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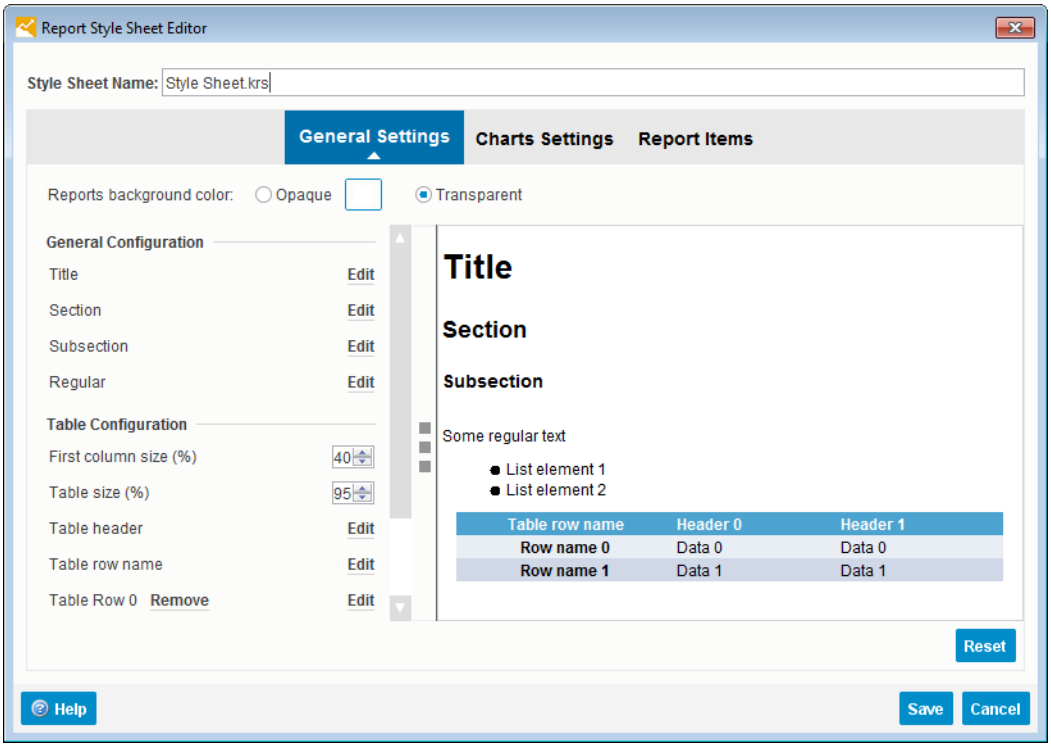
7.3 Managing the Style Sheets

The *Report Style Sheet Editor* allows you to customize the visual display of the reports. In this panel, users can:

- Indicate the style sheets repositories.
- Define the fonts and colors to be used (titles, background, charts, tables and so on).
- Define the charts bars orientation.
- Select information to display according to the type of report (Overview, Executive Report, etc.).
- Specify sorting order.



SAP InfiniteInsight® offers the possibility to customize the generated reports. The default style sheet, InfiniteInsight® Report Style Sheet, cannot be modified. You have to create other style sheets to modify the settings.

Note

To create, load or save a style sheet, you have to indicate a data source in the *Report* panel before opening the panel *Report Style Sheet Editor*.

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☑ To Create a New Style Sheet

1. Click the button (*New*).
   A pop-up window opens.
2. Enter a name for the new style sheet.
   The extension `.krs` is automatically added.
3. Click *OK*.

☑ To Load an Existing Style Sheet

4. Select one of the displayed style sheets.
5. Click the button (*Load*).
   The settings of the loaded style sheet are displayed.

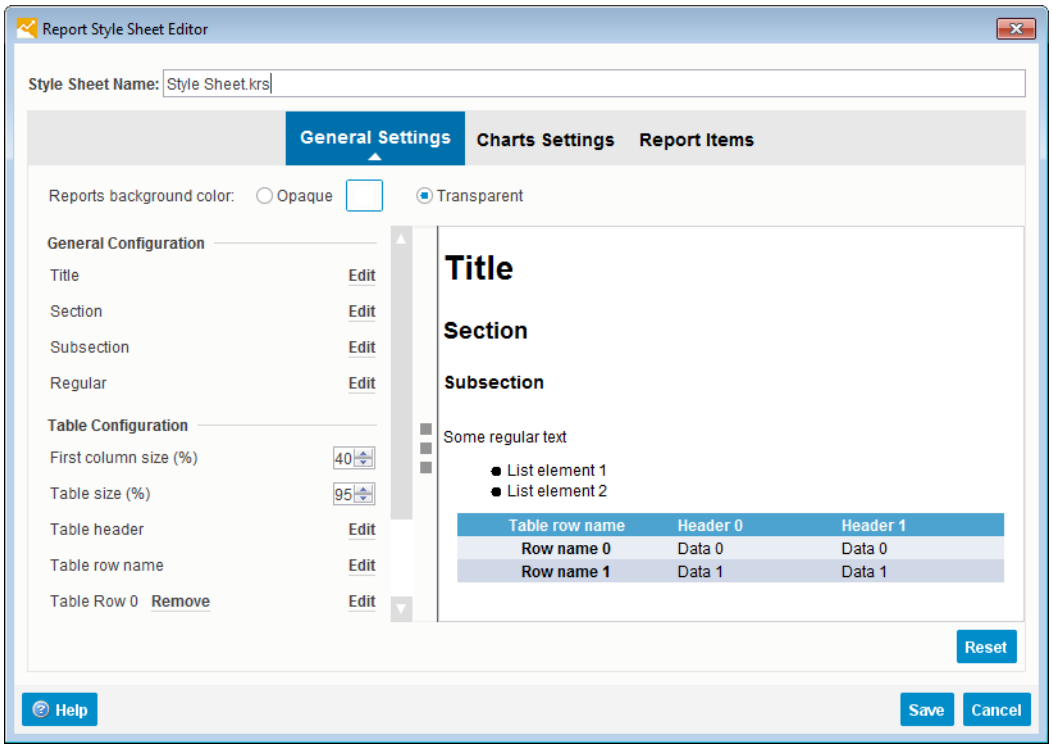
☑ To Delete a Style Sheet

6. Select one of the displayed style sheets.
7. Click the button (*Remove*).

> **Note**
>
> The style sheet is not only deleted from the list but also from the data source.

7.3.1 General Settings

The section *General Settings* of the *Report Style Sheet Editor* allows you to customize the reports visual aspects.



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Customizable Parameters

Parameter	Options...	Procedure	Note
Reports background color	▪ choose a color ▪ make transparent	▪ Click *Opaque* and choose a color in the box next to it or click *Transparent*.	▪ Only the formats PDF and HTML can display a background color.
General Configuration	▪ Title ▪ Section ▪ Subsection ▪ Regular	▪ Click the corresponding *Edit* button.	/
Table Configuration	▪ First column size ▪ Table size ▪ Table header ▪ Table row name ▪ Table row <number>	▪ Click the corresponding *Edit* button or Enter a value. ▪ Click *Add new font* to add a new table row font.	/

☑ To Customize the Style Sheet

1 Select a style sheet in the section *Style Sheet Repository*.

2 Customize the desired parameters (chart bars orientation, colors, and so on).

7.3.2Charts Settings

The section *Chart Settings* of the *Report Style Sheet Editor* allows you to customize the charts settings.

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☑ To Add a Chart Color

1. Click the button (*New*).
   A pop-up window opens.
2. Configure the color.
3. Click *OK*.

☑ To Remove a Chart Color

4. Select the chart color
5. Click the button (*Remove*).

☑ To Edit a Chart Color

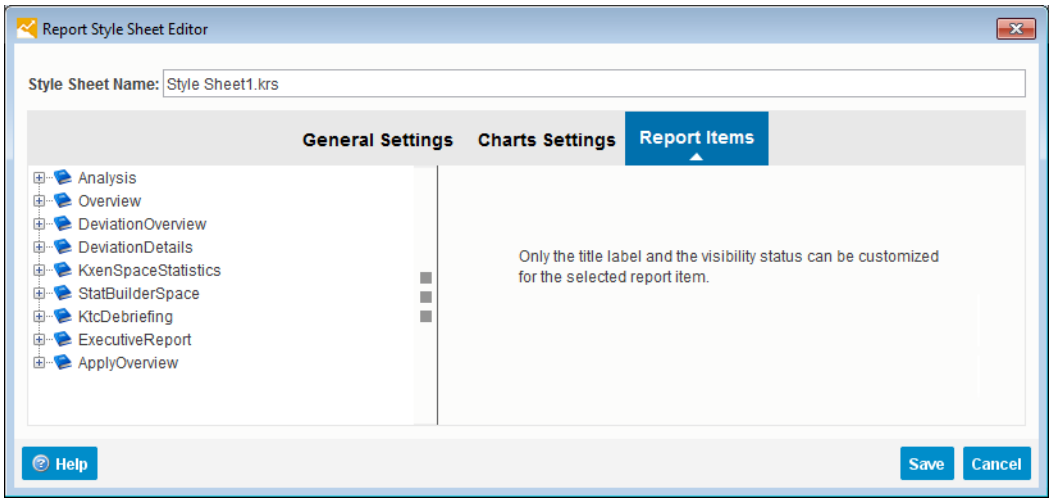
6. Select the chart color
7. Click the button (*Edit*).

☑ To Set the Default Bar Charts Orientation

Check either *Horizontal* or *Vertical* depending on your choice.

7.3.3 Report Items

The section *Report Items* allows you to personnalize the display of each of the reports generated by SAP InfiniteInsight® (Overview, Executive Report, Analysis, KTCDebriefing, DeviationOverview...).



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☑ To Edit the Report Items

1 In the right column, select one of the reports. The report are classified by categories.

2 The following table sums up the different options that can be set :

Option	Allows you to...	Procedure
Visible	Hide/display columns of a report item or even of menu items. *Note*- At least one column of the report item must be set as visible.	▪ Check/uncheck the box *Visible* of the report item.
Displayed as	Define the name of the report	▪ Enter a title in the corresponding field.
View Type	Choose between *Tabular*, *HTML* and *Graphical* view. *Note* - The *Graphical* option is only available if the report item can be displayed as a graph.	**1** Select a report item. **2** Select an option in the drop-down list *View Type*.
Chart Type	Define the graph type. *Note* - This option is only available for report items of the view type *Graphical*.	**1** Select a report item. **2** Select an option in the drop-down list *Chart Type*.
Switch Bar Orientation	Set a different bar orientation for a specific report item. *Note* - This option is only available for some report items.	▪ Check the box *Switch Bar Orientation* (if the option is activated).
Sort by/Sort Order	Define a column to sort/order by and choosing between an ascending or a descending order.	**1** Select a report item **2** Define the sorting options in the drop-down lists that are displayed.
Visible Columns	Define the columns you want to display in the report.	▪ Check the columns you want to display.

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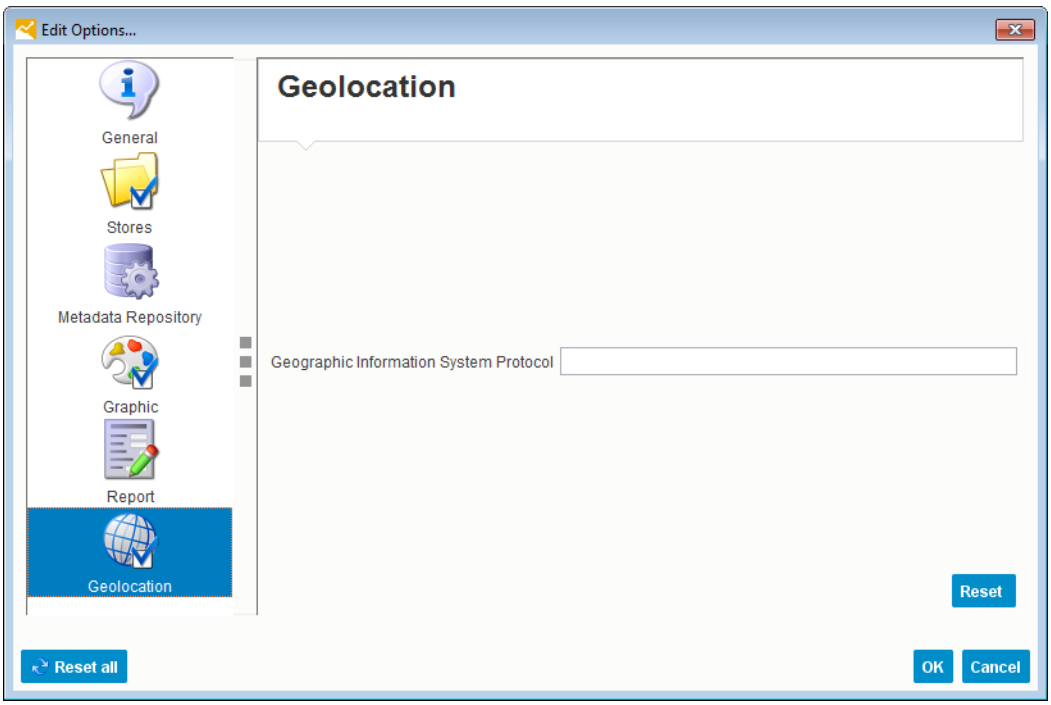
7.4 Geolocation

Use the *Geolocation* panel to define the base address where you will send your GIS requests. A GIS is a system requiring a base address and that captures, manages, analyzes and displays all types of geographical data. For example, a GIS allows you to visualize tiles and sequences on Google Earth.

After defining your base address, the generated URI will automatically begin with this address.



For example, if you use the following address `http://odissey3D/`. This address will automatically appear in the *Tiles Debriefing* and *Path Visualization* panels.

☑ To Define an Address

In the field *Geographic Information System Protocol*, enter the base address.

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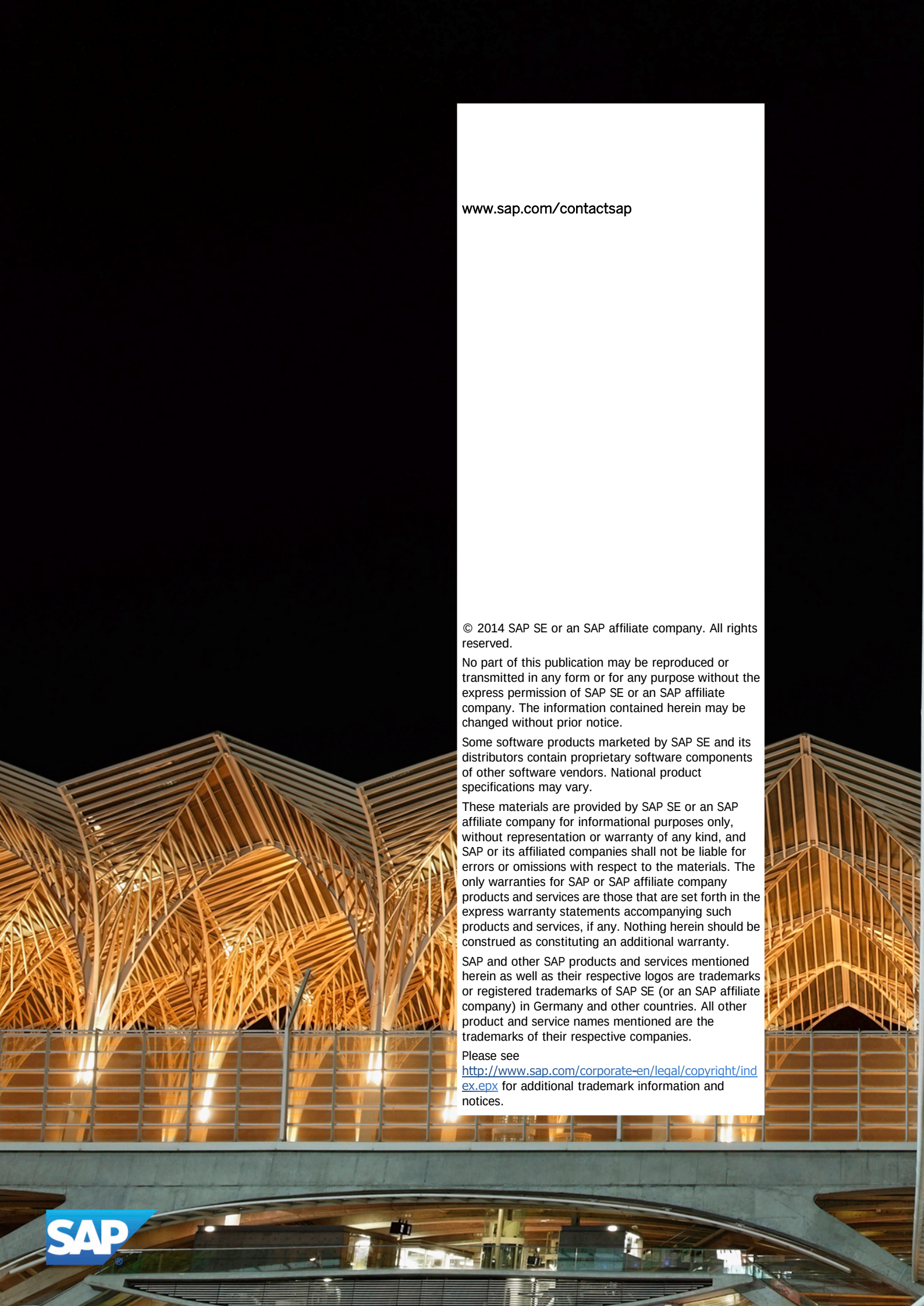

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